

# CSI Country Wide Case Study Safety Strategy Discussion

## Construction Safety Investigator



### Instructions

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The objective of this tool is to provide field supervisors with information to proactively engage workers and discuss safety related concerns that they may encounter. Safety discussions should not be limited to the subject above and should pertain to the activities that workers will be involved in that may have the potential for safety related exposures.

### Case Day:

July 5, 2007

### Accident Type:

Concrete Accident - Formwork Failure

### Relevant laws, rules and codes may include:

29CFR 1926.20(a)(1), 1926.21(b)(2), 1926.453, 1926.454, Aerial Lift  
Manufacture's Operating

### Case:

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Concrete formwork failed, causing a deck pour collapse where 16 workers fell to the floor below.

### Accident Detail:

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The company involved was contracted to do all pour in place concrete work for a 14-story condominium. On the day of the incident, a 35-person concrete crew had arrived at the job site and made their way to the 13th floor to complete formwork preparations (rebar, block outs, post-tension cables) for the concrete deck pour scheduled to begin that morning.

After about 1½ hours into the day, the concrete employees felt the formwork being adjusted from below. Immediately following, the concrete pumping began for the pour. After approximately 45 minutes into the pour, the formwork began to bounce and within a few minutes, it collapses to the floor below with 16 concrete employees on it.

### Reconstructive Safety Evaluation:

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- What are some of the possible causes of the accident being discussed?
- What actions could have been taken that might have prevented this accident from occurring?

